least 24 Mbps and at a packet error rate of less than $1.5 \cdot 10^{-9}$.

An object of the invention is to provide a minimal increase in interframe spacings specified for 802.11a and other CSMA systems, while maintaining minimum latency.

Another object of the invention is to provide early detection of failed packets.

5   A further object of the invention is to provide a modification to 802.11a which fits within the framework of currently proposed Quality of Service enhancements for 802.11.

Another object of the invention is to provide a coding scheme suited for use with MPEG transport streams.

Yet another object of the invention is to provide a coding scheme for integration

10   into 802.11a and 802.11e packet formatting which allows non-FEC capable devices to read FEC coded packets.

Another object of the invention is to provide less than one frame error in 10 hours of transmission.

This summary and objectives of the invention are provided to enable quick

15   comprehension of the nature of the invention. A more thorough understanding of the invention may be obtained by reference to the following detailed description of the preferred embodiment of the invention in connection with the drawings.

<u>Brief Description of the Drawings</u>

Fig. 1 depicts 802.11a physical layer (PHY) transmit chain modified by the

20   invention.

<u>Fig. 2 depicts an exemplar of a frame format of an outer word of the invention.</u>

<u>Detailed Description of the Preferred Embodiment</u>

The use of an outer code, with error correcting requirements described herein, will